Title (en)

Process for the preparation of polyalk-1-enes in the presence of a supported metallocene catalyst system and an antistaticum

Title (de)

Verfahren zur Herstellung von Polyalk-1-enen in Gegenwart eines geträgerten Metallocenkatalysatorsystems und eines Antistatikums

Title (fr)

Procédé de préparation de polymères alc-1-ènes en présence d'un système catalytique à base de métallocène supporté et d'un agent antistatique

Publication

EP 0803514 B1 19991201 (DE)

Application

EP 97106319 A 19970417

Priority

DE 19615953 A 19960422

Abstract (en)

[origin: EP0803514A1] A method for the preparation of 2-12C alpha-olefin polymers at -50 to +300 degrees C and 0.5-3000 bar in the presence of a catalyst system - uses a catalyst that contains the following components :(A) an (in)organic carrier ; (B) a metallocene complex ; (C) a metallocenium ion-forming compound ; and (D) optionally a metal compound of formula (I). M<1)<R<1>)r(R<2>)s(R<3>)t (I) M<1> = alkali(ne earth) or Group III metal ; R<1> = H, 1-10C alkyl, 6-15C aryl, 1-10C alkyl-(6-20C)-aryl or 6-20C aryl-(1-10C)-alkyl ; R<2>, R<3> = H, halogen, 1-10C alkyl, 6-15C aryl, 1-10C alkyl-(6-20C)-aryl, 6-20C aryl-(1-10C)-alkyl or 1-10C alkoxy ; r = 1-3 ; and s, t = 0-2, with the provision that the sum of r-t is equal to the valency of M<1>. An anti-static agent is also used with the catalyst.

IPC 1-7

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IPC 8 full level

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CPC (source: EP KR US)

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Cited by

AU782695B2; US6743871B2; US6803430B2; WO0144323A1; WO02068483A1; WO0144322A1; US6608153B2; US7354880B2; US6180735B1; US6551957B1; US6610803B1; US6861483B2; US6713573B2; US6482903B1; US6660815B2

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